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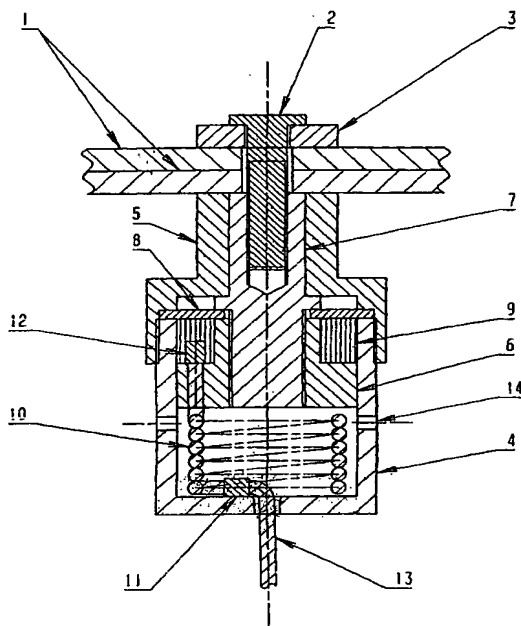
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(54) Title: EXPLOSIVE BOLT



(57) Abstract: Explosive attachment device for mechanical connection of components, internally provided with an explosive charge, the detonation shock effect of which is strong enough for rupturing a connection forming part of the attachment device, for a rapid disconnection, whereby the attachment device incorporates an attachment screw (2), which extends through the interconnected components (1) and an explosive attachment element (4-14) in which the attachment screw (2) is fixedly mounted, thus that the interconnected components (1) are clamped between the head of the said attachment screw (2) and the explosive attachment element (4-14), which explosive element (4-14) comprises a cylinder (4), which is closed by means of a cover (5), which engages against one of the interconnected components (1) and a piston (6) mounted in the cylinder (4), which has substantially the same outer diameter as the inner diameter of the cylinder (4), and which piston (6) is arranged inside the cylinder (4) thus that there is a substantial space at both sides of the piston (6), whereby in the space between the piston (6) and the bottom of the cylinder (4) is provided a circular row of small holes (14) in the wall of the cylinder (4) at a distance from the bottom of the cylinder (4), which is at least equal to the height of the piston (6) at its biggest diameter and which piston (6) is provided with a rod (7) with a substantially smaller diameter than the inner diameter of the cylinder (4) and which rod (7) extends in parallel to the longitudinal mean axis of the cylinder (4) through the cover (5), but not outside this, thus that the attachment screw (2) can be fixedly mounted in the rod (7) and in which cylinder (4) in the space between the piston (6) and the cover (5)

is arranged the explosive charge (9), which is provided with a firing device (10, 11, 12, 13), which is equipped with a delay mechanism, whereby the attachment device after a time delay is arranged to be blasted in such a manner, that the blasting pressure is converted to a pulling stress, which acts upon the attachment screw (2) to be pulled off without the other part of the device being splintered.